

1 guaranteed to be accurate. The Contractor is advised to contact prospective compost  
2 facilities to confirm that they still meet the Solid Waste Handling Standard for composted  
3 material.

4 Compost shall be made from ground yard waste that has first been screened through a  
5 5/8-inch trammel screen. The composting process shall include five 3-day periods during  
6 which the compost temperature is 131 to 165 degrees Fahrenheit. The total composting  
7 time period shall be a minimum of 4 months. Topsoil shall be weed free.

8 **Silver Springs Organics**

9 Samantha Fleischner  
10 13835 Military Road SE  
11 Rainier, WA 98576  
12 (360) 446-7645

**Compost Factory**

Carrie Gregory  
17925 Meridian  
Puyallup, WA 98375  
(253) 847-7775

13 **Wilcox Farms Compost Site**

14 Ken Hooper  
15 40400 Harts Lake Valley Rd. S  
16 Roy, WA 98580  
17 360-458-7774

**Purdy Topsoil and Gravel**

Rick Mondoux  
5819 133rd St. NW  
Gig Harbor, WA 98332  
253-857-5850

18 **Little Hanaford Farms**

19 Dennis Frett  
20 2385 Little Hanaford Rd.  
21 Centralia, WA 98531  
22 360-736-6673

23 **9-29 ILLUMINATION, SIGNALS, ELECTRICAL**

24 **9-29.2(1) Standard Junction Box**

25 The first and second paragraphs in this Section are deleted and replaced with the following:

26 Install standard junction boxes in locations shown in the Plans. Standard junction boxes  
27 shall be concrete junction boxes conforming to details in the Standard Plans, or approved  
28 non-concrete junction boxes, except Type 3 junction boxes shall have divided,  
29 dual-hinges lids.

30 Concrete junction boxes shall have a minimum compressive strength of 6000 psi when  
31 reinforced with a welded wire hoop and 4000 psi when reinforced with welded wire fabric  
32 or fiber reinforcement. The frame shall be anchored to the box by welding the wire fabric  
33 to the frame or by welding headed studs 3/8 inch x 3 inches long, as specified in  
34 Section 9-06.15, to the frame. The wire fabric shall be attached to the studs and frame  
35 with standard tie practices. The box shall contain ten studs located near the centerline of  
36 the frame and box wall. The studs shall be placed one anchor in each corner, one at the  
37 middle of each width and two equally spaced on each length of the box. The steel frame,  
38 lid support, and lid shall be hot dip galvanized in accordance with AASHTO M 111.

**9-29.6(5) Foundation Hardware**

The second paragraph in this Section is deleted and replaced with the following:

Anchor bolts for Type X, Y and Z signal poles shall meet the requirements of ASTM A 449. Anchor bolts for luminaire poles shall meet the requirements of ASTM A 307. Nuts shall be heavy hex meeting the requirements of AASHTO M 291, Grade C, D, or DH. Washers shall meet the requirements of AASHTO M 293.

**9-29.6(6) Decorative Light Standards (New Section)**

**9-29.6(6)A Poles**

Decorative light standards for the illumination system shown on the plans shall be made from a 16 flute, tapered steel shaft welded to a steel base plate. Poles shall have slip bases per WSDOT Standard Plan J-28.42-01. Anchor bolt assemblies shall be per WSDOT Standard Plan J-28.30-03. Poles shall include a 4-inch to 4 1/2-inch wide by 8-inch to 10-inch tall maintenance opening located at 18-inches to 20-inches above the base plate. The maintenance opening shall come complete with cover, copper ground lug and stainless steel hardware.

Pole height dimension shall be determined prior to ordering of poles and indicated in submittals for the Engineer's review as required to provide the required mounting height of the luminous center of the specific decorative luminaires proposed for use on the project.

Poles and slip bases shall be factory primed and finish coated as referenced in Section 6-07 of these Special Provisions.

The pole manufacturer shall furnish the Contractor with template prints showing spacing and size of holes in base for the anchor rods.

The poles shall carry the manufacturer's standard guarantee against any defect in material or workmanship for a minimum period of one year following the date of installation. The contractor shall submit welder certification. Welders must be certified to AWS standards.

**9-29.6(6)B Decorative Luminaire Arms/Brackets**

Luminaire arms shall feature a 2 3/8-inch OD double-bend steel tube welded to a steel adaptor. The mounting arm assemblies shall include cast-aluminum decorative elements on a pole top adaptor that slip-fits approximately 10-inches over a 2 7/8-inch O.D. pole top tenon.

Luminaire arm styles shall be Philips Lumec AC-P108, Cyclone M534 or a visually similar style approved equal.

Each luminaire arm bracket assembly shall provide the pole center to luminaire attachment point "Arm Length" indicated in the plans  $\pm 4$ -inches.

Poles and slip bases shall be factory primed and finish coated as referenced in Section 6-07 of these Special Provisions.

## **9-29.10 Luminaires**

The first sentence of the first paragraph in this section is deleted and replaced with the following:

If not listed on the Qualified Products List (QPL) a Certificate of Compliance shall be submitted by the manufacturer with each type of luminaire along with a minimum 1-year warranty on the fixture.

### **9-29.10(1) Conventional Roadway Luminaires**

This Section is supplemented with the following:

#### **Cobra Head Luminaire Fixtures**

Cobra head luminaire fixtures used on this project shall be of one of the following:

1. American Electric Lighting – ATB2-60BLEDE10-MVOLT-R3-P7-NL-HK
2. Contact: Tom Noble, Holophane - 425-228-7883
3. Philips Lumec – RFL-215W96LED4K-T-R3M-UNV-DMG-RCD7-GY3
4. Contact: Jeremy Michel, ERW Lighting and Controls - 206-204-3956
5. General Electric – ERL2-0-18-C3-40-A-GRAY-A-B-G-I-L-041  
Contact: Jeremy Michel, ERW Lighting and Controls – 206-204-3956

All fixtures provided on the project shall be from one of the manufacturers listed above.

For fixture to be supplied with photocell refer to Plans. All other fixtures shall have shorting caps.

### **9-29.10(2) Decorative Luminaires**

This Section is supplemented with the following:

#### **Decorative Luminaire Fixtures**

Decorative luminaire fixtures used on this project shall be of one of the following:

1. Philips Lumec Domus - DOS-\_\_W32LED-ES –LE\_F-240
2. For fixture wattage and distribution refer to Plans.  
Contact: Jeremy Michel, ERW Lighting and Controls - 206-204-3956
3. Cyclone Domia-SY21P1-FGC-\_MHS-40W-4K-240
4. For fixture distribution refer to Plans.  
Contact: Ken Freed, Lighting Group NW - 206-298-9000
5. Sternberg Lighting - 1A-1521LED-F-3ARC45T\_-MDL03-FG

1           6. For           fixture           distribution           refer           to           Plans.  
2           Contact: Patrick Armstrong, Pacific Lighting Systems - 206-323-2200

3           All fixtures provided on the project shall be from one of the manufacturers listed above  
4           and shall be Factory painted per Section 6-07.

#### 5   **9-29.11 Control Equipment**

6   This Section is deleted in its entirety and replaced with the following:

7           Illumination circuits shall be controlled by a combination of photoelectric controls and  
8           lighting contactors as noted in the Contract. The photocell shall be mounted on top of the  
9           luminaire closest to the electrical service. A 3/C #14 IMSA cable shall be provided from  
10          the photocell to the electrical service.

#### 11   **9-29.11(2) Photoelectric Controls**

12   The first paragraph in this Section is deleted and replaced with the following:

13          The photoelectric control shall be the twistlock type and the light sensitive element shall  
14          be a solid state photo diode. The control shall be designed to turn on at 3 foot-candles  
15          (32 lux) and turn off at 1.8 foot-candles (20 lux). The lighting control shall not drift by  
16          more than 1 percent over a 10-year period. The photoelectric control shall have a  
17          minimum 1-year warranty.

#### 18   **9-29.12(1) Illumination Circuit Splices**

19   This Section is deleted in its entirety and replaced with the following:

20          Splices and taps shall be made with solderless crimp connectors on underground circuits  
21          to securely join the wires both mechanically and electrically. Aerial splices may employ  
22          split bolt connectors. Splices at below grade locations shall employ epoxy resin cast type  
23          insulation. Two-way (in-line) splices and three-way (T or wye) splices shall employ clear  
24          rigid plastic molds. Clear mylar sheet bonded to butyrate webbing forming a flexible mold  
25          shall be used for four-way or more. The material used shall be compatible with the  
26          insulation material utilized. Equipment and methods shall be as recommended by the  
27          manufacturer of the splicing materials. The component materials of the resin insulation  
28          shall be packaged form ready for convenient mixing without removing from the package.  
29          Only one conductor or one multi conductor cable per wire entrance will be allowed in any  
30          rigid mold splice.

#### 31   **9-29.12(2) Traffic Signal Splice Material**

32   This Section is deleted in its entirety.

#### 33   **9-29.13 Traffic Signal Controllers**

34   This Section is deleted in its entirety and replaced with the following:

35          The Contractor shall furnish and install an Econolite Cobalt controller. It shall conform to  
36          performance specifications and standards for TS2-Type 2 controllers as set forth in the  
37          latest version of the NEMA Publication No. TS2.